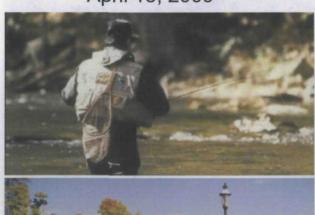




Proposed Scope for Focused Cleanup of Plainwell No. 2 Dam Area

April 13, 2009









Background

- KRSG, USEPA, MDEQ, and Natural Resource Trustee met 10/07/08 to review KRSG's proposed Next Steps for Cleanup and Restoration of the Kalamazoo River
 - Included scope for cleanup of Plainwell No. 2 Dam Area
- Conceptual Design Report for Bank Removal and Restoration –
 Plainwell No. 2 Dam Area (CDR) submitted to USEPA 11/04/08
- A meeting was held 12/04/08 to discuss Agencies' review of the CDR
- Additional data from MDEQ forwarded to KRSG on 12/29/08
- A planned January 2009 meeting to complete scope discussions was canceled by Millennium Holdings, LLC
- ARCADIS reconnoitered Island 2 side channel area in February 2009
- This updated proposed scope for jointly funded cleanup agreement with USEPA was modified in response to Agency comments on the initial proposal, and additional information from MDEQ

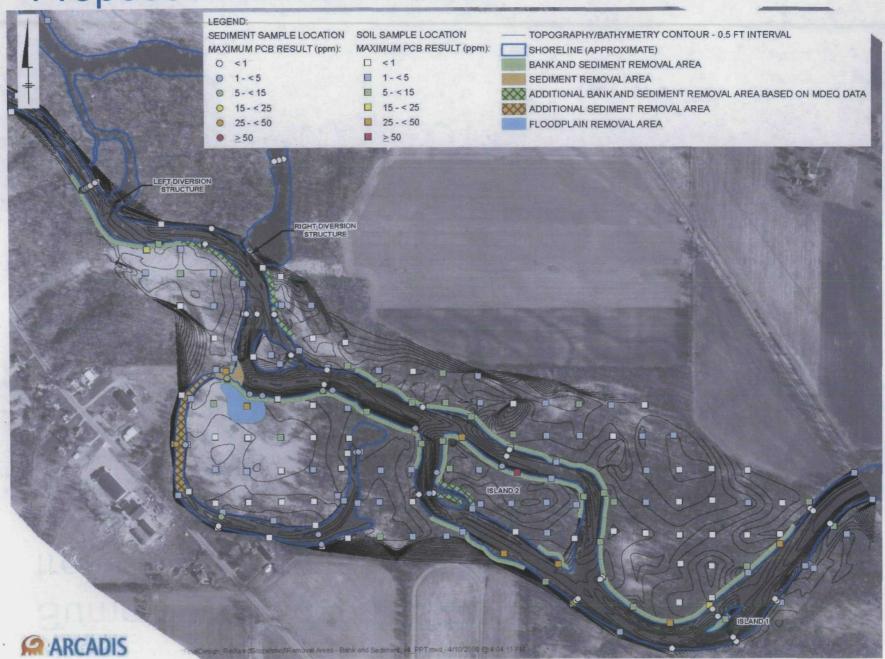


Summary of Scope Adjustments from Conceptual Design Report

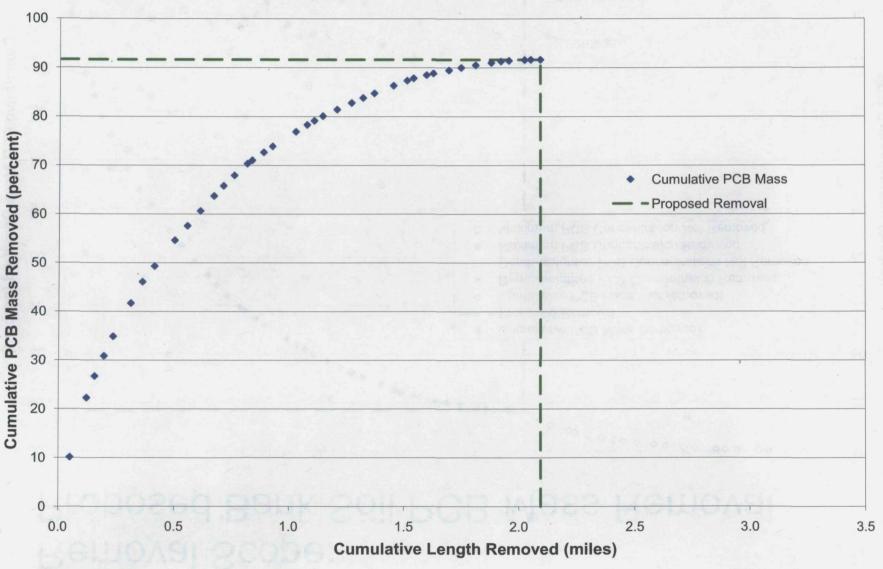
- Information from MDEQ was incorporated to generate updated cumulative mass removal basis for targeting bank segments
 - New bank segments included near the Dam, Island 2 side channel
 - PCB mass removal increased to 92% of available inventory
 - Bank removal increased to 53% of total length
- 0.9-acre floodplain area near mouth of oxbow with 44 (J) mg/kg PCB in the surface soil (0 to 0.5-foot interval) included
- Remaining floodplain and bank soil PCB concentrations average 2.3 mg/kg
 with a median of 1.3 mg/kg
- 0.9-acre sediment area on west side of oxbow included down to midpoint between sediment samples P2RT7-7 and P2RT8-7
- Removal of toe-of-bank sediments in specific areas
 - To be determined in design based on individual transect information
 - Allowed for using 1.5 ft² cross-sectional excavation along length of removed bank



Proposed Removal Areas

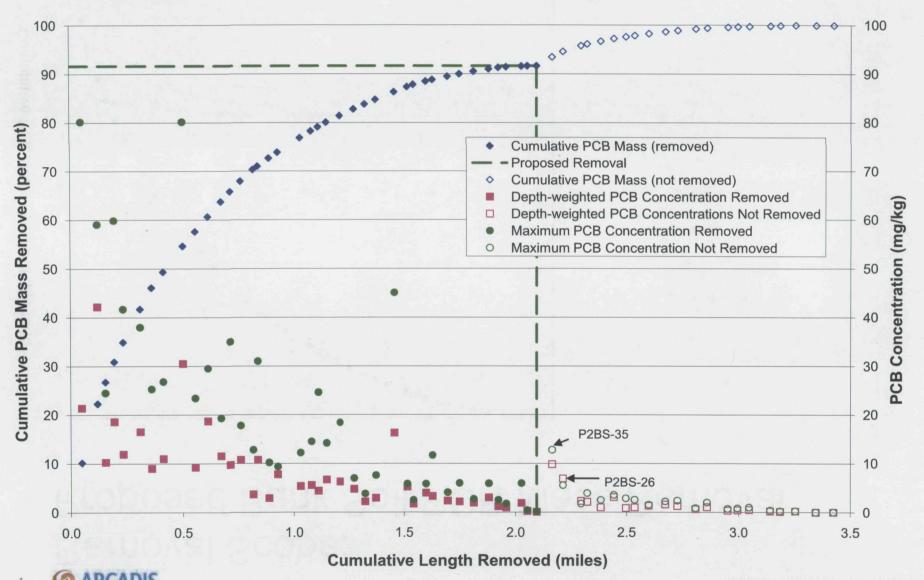


Removal Scope: Proposed Bank Soil PCB Mass Removal





Removal Scope: Proposed Bank Soil PCB Mass Removal



Scope Summary

Parameter	Extent of Removal				
Bank Length	2.1 miles				
Bank Area	7.1 acres				
Bank Soil Volume	11,200 cy				
Floodplain Area	0.9 acres				
Floodplain Volume	780 cy				
Sediment Volume	2,290 cy				
TOTAL VOLUME	14,270 cy				



TSCA Disposal Requirements

Application of Fox River Protocol

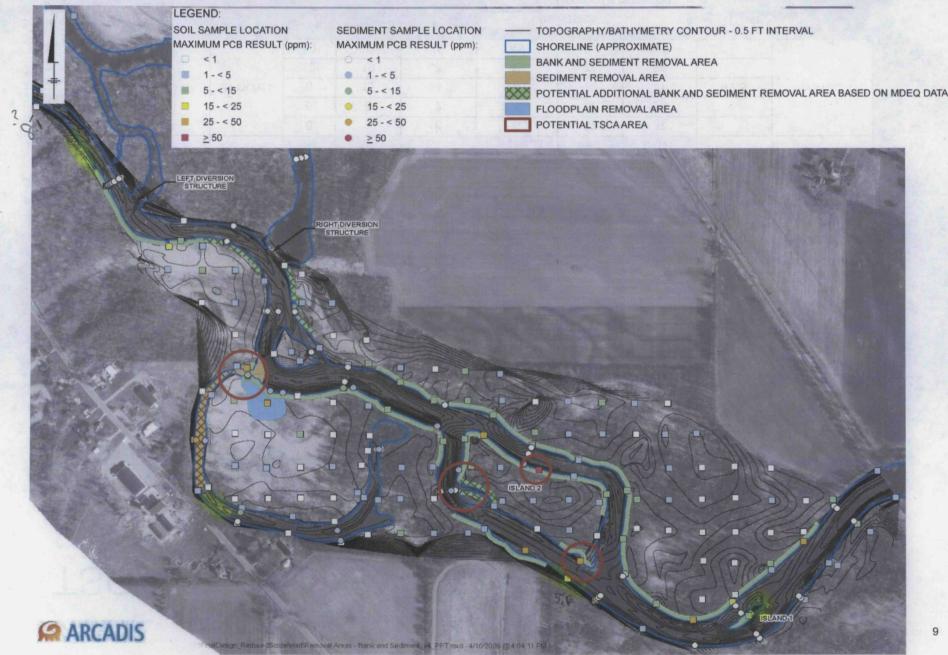
- Depth-weighted average PCB concentration to 30 inches or depth of removal
- Evaluated on basis of removal segments
- Combined results from samples collected by ARCADIS and MDEQ when both present in a removal segment

No materials require TSCA disposal

- Five removal segments contained either sediment or soils with maximum PCB concentration > 50 mg/kg PCB
- Depth-weighted average PCB concentrations over removal depths in these five removal segments range from 34.6 to 42.5 mg/kg



Removal Segments with Max PCB > 50 mg/kg



TSCA Disposal Evaluation According to Fox River Protocol

Location	MDEQ Sample ID	Removal Depth	Sample Interval			ARCADIS	MDEQ	Average	Depth-	
			Top (in)	Bottom (in)	Thickness (in)	PCB (mg/kg)	PCB (mg/kg)	PCB (mg/kg	Weighted PCB	TSCA Determination
P2FP-053	N/A	12 inches	0	6	6	13 J			36.5	Non-TSCA
			6	12	6	60 J				
			12	24	12	0.92				
	N/A	18 inches	0	2	2	43.4			34.6	Non-TSCA
			2	6	4	100				
DODTES			6	12	6	22.6				
P2RT-6-2			12	18	6	0.086				
			18	24	6	0.086				
			24	27	3	0.054				
P2BN-23	PSD-36 and PSD-37	12 inches	0	6	6	0.88	80	41	36.9	Non-TSCA
			6	12	6	0.27	66	33		
			12	14	2	0.27	66	33		
			14	21	7	ND (0.064 U)		0.032		
P2BN-24	PSD-36 and PSD-37	12 inches	0	6	6	1.1	80	41	37.1	Non-TSCA
			6	12	6	0.46 J	66	33		
			12	20	8	0.13		0.13		
			20	24	4	ND (0.082 U)		0.041		
P2BN-26	PSL-40	24 inches	0	6	6	7.6 J	47	27	The call of	Non-TSCA
			6	8	2	8.4 J	47	28	The second second	
			8	12	4	8.4 J	73	41	42.5	
			12	19	7	45	73	59		
			19	23	4	45	et in the	45		

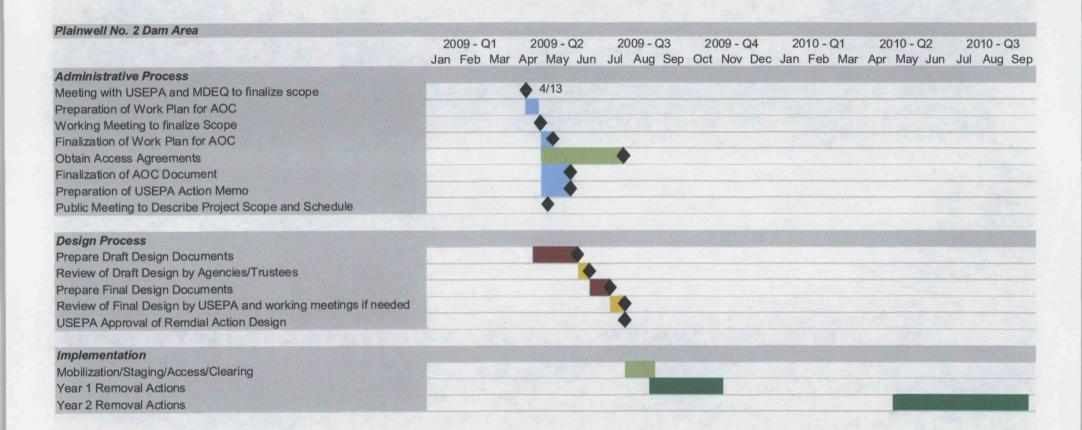
Non-TSCA
Not included in calculation



Schedule

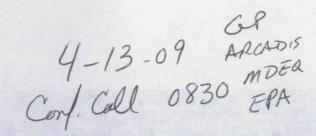


Estimated Planning and Removal Action Schedule



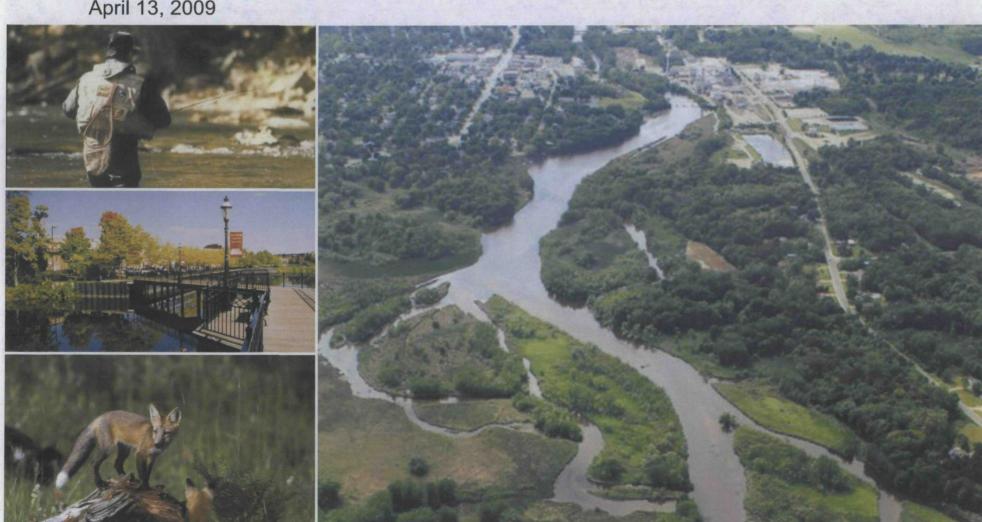






Proposed Scope for Focused Cleanup of Plainwell No. 2 Dam Area

April 13, 2009



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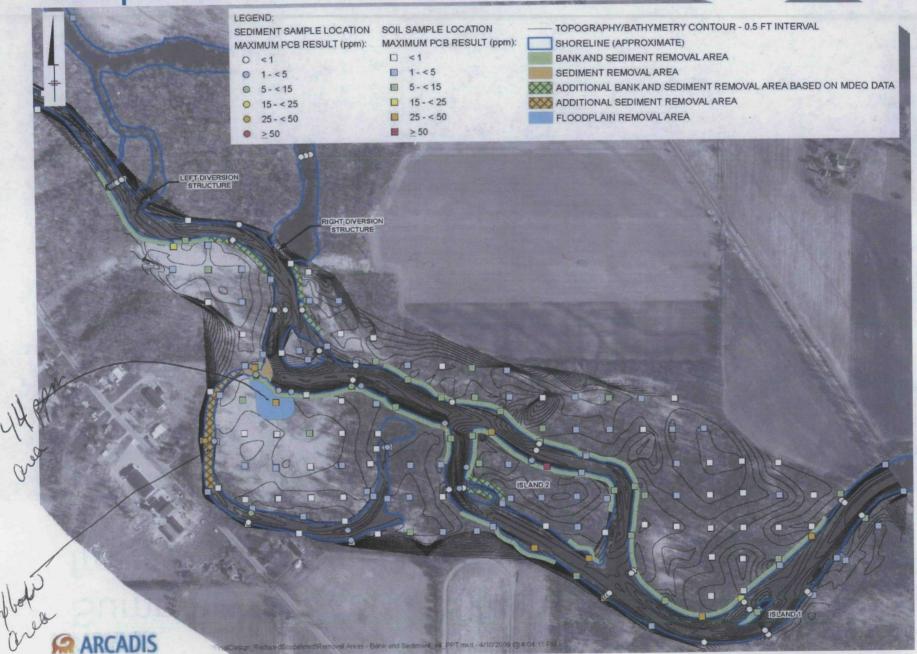


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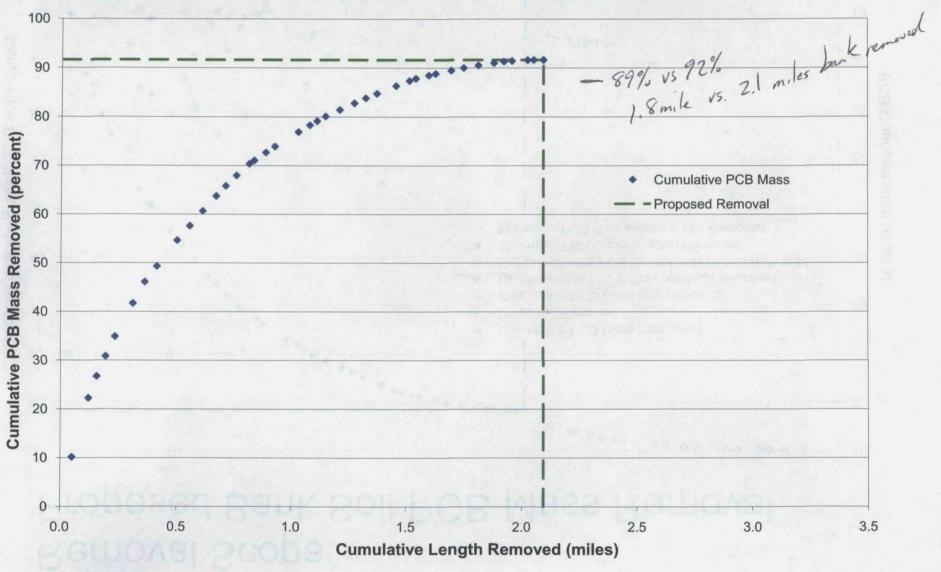
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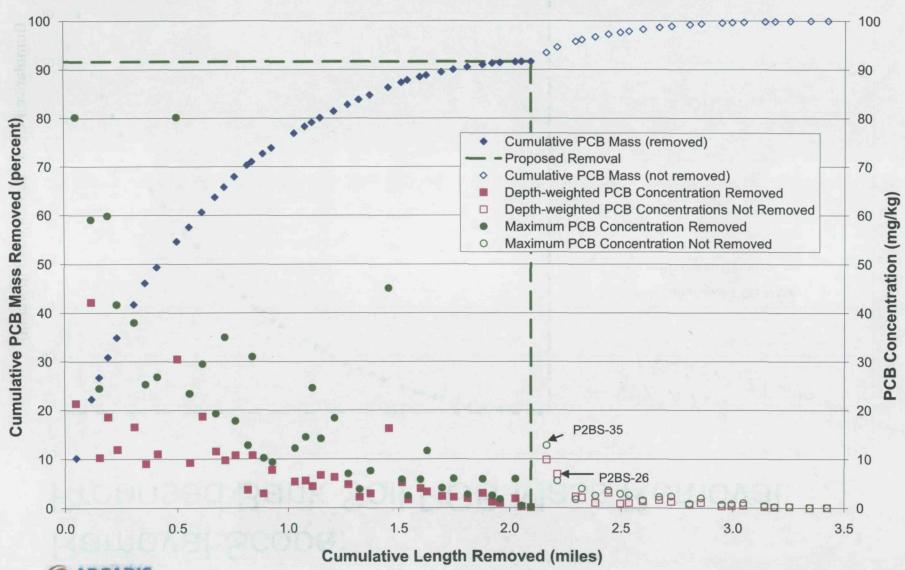


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Scope Summary

fish tracie sample in conjunction activities - sample pre + post amoval into

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TOTAL VOLUME	14,270 cy



fox Rever 30" pertocal was for a cin-shan

TSCA Disposal Requirements

Big Isave for GP.

Application of Fox River Protocol

sedonet removed of cutter head dudge VS. bank soil expanation - Depth-weighted average PCB concentration to 30 inches or depth of GP doesn't want to change this removal

- Evaluated on basis of removal segments afraid of setting preachest u

 Combined results from samples collected by ARCADIS and MDEQ 12" when both present in a removal segment

No materials require TSCA disposal

- Five removal segments contained either sediment or soils with maximum PCB concentration > 50 mg/kg PCB
- Depth-weighted average PCB concentrations over removal depths in these five removal segments range from 34.6 to 42.5 mg/kg

GP- gather disposal facilities permit and review the designation of PCB waste (c. definition).



Removal Segments with Max PCB > 50 mg/kg



TSCA Disposal Evaluation According to Fox River Protocol

Location	MDEQ Sample ID	Removal Depth	Sample Interval			ARCADIS	MDEQ	Average	Depth-	
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Non-TSCA
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